



KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11)Publication number:

1020020038540 A

(43) Date of publication of application: 23.05.2002

(21)Application number:

1020010071313

(22)Date of filing:

16.11.2001

(71)Applicant:

CHA, GUK HEON

LEE, HUI U

LEE, JIN KYU YOON, DO YOUNG

(72)Inventor:

CHA, GUK HEON LEE, HUI U

LEE, JIN KYU YOON, DO YOUNG

(51)Int. CI

C08G 77 /04

(54) POLYMETHYLSILSESQUIOXANE COPOLYMER AND PREPARATION THEREOF AND LOW DIELECTRIC COATING MEMBRANE USING THE SAME

(57) Abstract:

PURPOSE: Provided are a soluble polymethylsilsesquioxane copolymer having many terminals and a large molecular weight, a preparation thereof, and a low dielectric coating membrane using CONSTITUTION: The the polymethylsilsesquioxane copolymer. polymethylsilsesquioxane produced by copolymerizing methyltrialkoxy silane represented by the formula 1 with one or two alpha, omega-bis(trialkoxysilyl) monomers selected from compound represented by the formula (methyldimethoxysilyl)ethane in a mixture solvent of an organic solvent and water in the presence of an acid catalyst. The polymethylsilsesquioxane contains the Si-OH terminal content of

more than 10%, a molecular weight of 5,000-30,000, and a crosslinkable organic silicon monomer. And the low dielectric coating membrane is formed by mixing the polymethylsilsesquioxane copolymer with a pore generating agent in an organic solvent and then coating the mixture on a substrate. In the formula, R is CH3- or CH3CH2- and -X-Y- is -CH2-CH2-.

copyright KIPO 2002

Legal Status

Date of request for an examination (20011116) Motification data of raffical decision (0000000)

PECT AVAILABLE

V